

IN THE CLAIMS:

OK TO ENTER: /L.C./

1. (Currently Amended) A recording/reproduction method, comprising the steps of:

generating a binary signal by converting a reproduction signal to a binary form;

generating a synchronization signal using the binary signal, the synchronization signal being in synchronization with a clock signal;

measuring a time interval between the binary signal and the synchronization signal and measuring an edge shift amount between the time interval and a clock time interval specified by the clock signal; and

changing a parameter of a recording pulse based on the edge shift amount,

wherein the reproduction signal is a signal obtained by reproducing either a predetermined signal sequence or an arbitrary random signal sequence, and whether the predetermined signal sequence or the arbitrary random signal sequence is reproduced depends on as a function of the edge shift amount.

wherein the step of measuring the edge shift amount comprises
measuring a leading edge time interval between a mark leading edge of the binary
signal and a mark trailing edge of the synchronization signal, measuring a leading edge
shift amount between the leading edge time interval and the clock time interval,
measuring a trailing edge time interval between a mark trailing edge of the binary signal
and a mark leading edge of the synchronization signal, and measuring a trailing edge
shift amount between the trailing edge time interval and the clock time interval, and

wherein the measuring step comprises measuring a jitter value; the
recording pulse contains a first pulse, a multipulse, and a cooling pulse; and the step of
changing the parameter of the recording pulse comprises changing a movement
amount of the first pulse based on the leading edge shift amount, changing a movement
amount of the cooling pulse based on the trailing edge shift amount, and changing a
movement amount of the multipulse based on the jitter value.